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DATA SHEET

Reagent:	HIV-1 SF162 gp160 Expression Vector
Catalog Number:	10463
Lot Number:	070920
Release Category:	E
Provided:	5µg purified plasmid DNA (1µg/µl).
Cloning Site:	5′- EcoRI- BgIII -3′. The size of the insert is 3.3 kb.
Cloning Vector:	The cloning vector is pCAGGS (4.8 kb).
Description:	The SF162 gp160 insert was cut out of a SF162 3′ half-genome clone as a 3.3 kb EcoRI-BgIII fragment (nt 1-3287) and cloned into the pCAGGS vector at the same sites (Please note that the original BgIII cloning site is no longer present in this construct). The plasmid has a CMV enhancer and a chicken b-actin promoter as well as an SV40 origin. It is ampicillin resistant. Click here to view sequence
Special Characteristics:	Co-transfection of 293T cells with NL4-3 env plasmid yields an HIV-1 pseudotype virus that is R5-tropic and susceptible to neutralization by multiple antibodies. GenBank Accession #: EU123924
Recommended Storage:	4°C
Contributor:	Drs. Leonidas Stamatatos and Cecilia Cheng-Mayer.

References:

Stamatatos L., Lim M. and Cheng-Mayer C. Generation and structural analysis of soluble oligomeric envelope proteins derived from neutralization-resistant and neutralization-susceptible primary HIV-1 isolates. *AIDS Res. And Hum. Retroviruses* **16**: 981-994, 2000.

Stamatatos L., Wiskerchen M. and Cheng-Mayer C. Effect of major deletions in the V1 and V2 loops of a macrophage-tropic HIV-1 isolate on viral envelope structure, cell-entry and replication. *AIDS Res. And Hum. Retroviruses* **14**: 1129-1139, 1998.

Cheng-Mayer C., Liu R., Landau N. R. and Stamatatos L. Macrophage tropism of human immunodeficiency virus type 1 and utilization of the CC- CKR5 coreceptor. *J. Virol.* **71**:1657-1661, 1997.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pCAGGS SF162 gp160 from Drs. L. Stamatatos and C. Cheng-Mayer." Also include the reference cited above in any publications.

Recipient must not use or incorporate the reagent for commercial purposes.

Last Updated: February 10, 2017